COPPER-FIN® WATER HEATER PRODUCT SUMMARY
(CW) 90,000 - 500,000 BTU/HR

Lochinvar® High Efficiency Water Heaters, Boilers and Pool Heaters

	CW-090	CW-135	CW-180	CW-199	CW-225	CW-270	CW-315	CW-360	CW-399	CW-500
WATER										
GALLON CAPACITY	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.2
HEATING SURFACE (SQ. FT.)	10.6	15.3	19.9	23.5	23.5	26.9	30.5	34.0	43.0	52.1
WATER CONNECTIONS	2″	2″	2″	2″	2″	2″	2″	2″	2″	2″
DRAIN	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″
WATER FLOW RATE (GPM)	30	30	30	30	30	30	30	30	30	30
HEAD LOSS (FT. OF HD.)	5.5	5.7	5.9	6.1	6.1	6.3	6.5	6.7	6.9	7.0
MAX. WORKING PRESSURE (PSI)	160	160	160	160	160	160	160	160	160	160
MAX. WATER HARDNESS (GRAINS)	25	25	25	25	25	25	25	25	25	25
GPH @ 70°F RISE	127	191	256	283	320	383	447	511	567	710
GPH @ 100°F RISE	89	134	179	198	224	268	313	358	397	497
GPH @ 140°F RISE	64	96	128	141	160	191	224	256	284	355
# OF RELIEF VALVES	1	1	1	1	1	1	1	1	1	1
RELIEF VALVE SIZE	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″
RELIEF VALVE RATING (MBH)	500	500	500	500	500	500	500	500	1,912	1,912
RELIEF VALVE PRESSURE RATING (PSI)	150	150	150	150	150	150	150	150	150	150
RELIEF VALVE TEMPERATURE RATING (°F)	210	210	210	210	210	210	210	210	210	210
GAS										
INLET CONNECTION	1/2″	1/2″	3/4″	3/4″	3/4″	3/4″	3/4″	1″	1″	1″
MAX. INLET PRESSURE, NAT	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.	10.5″ w.c.
MIN. INLET PRESSURE, NAT	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	4.5″ w.c.	5.0″ w.c.	5.0″ w.c.
MANIFOLD PRESSURE, NAT	3.5″ w.c.	3.5″ w.c.	3.5″ w.c.	2.9″ w.c.	3.5″ w.c.	3.5″ w.c.	3.5″ w.c.	3.5″ w.c.	3.5″ w.c.	3.5″ w.c.
MAX. INLET PRESSURE, LP	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.	13.0″ w.c.
MIN. INLET PRESSURE, LP	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.	11.0″ w.c.
MANIFOLD PRESSURE, LP	10″ w.c.	10″ w.c.	10″ w.c.	7.5″ w.c.	10″ w.c.	10″ w.c.	10″ w.c.	10″ w.c.	10″ w.c.	10″ w.c.
BTU/HR INPUT	90,000	135,000	180,000	199,999	225,000	270,000	315,000	360,000	399,999	500,000
ELECTRICAL										
VOLTAGE/HEATER	120	120	120	120	120	120	120	120	120	120
VOLTAGE/PUMP	120	120	120	120	120	120	120	120	120	120
VOLTAGE/CONTROL	24	24	24	24	24	24	24	24	24	24
TOTAL AMPS W/PUMP	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
# OF ELECTRICAL CONNECTIONS	1	1	1	1	1	1	1	1	1	1
DIMENSIONS										
HEIGHT	29-1/2″	29-1/2″	29-1/2″	29-1/2″	29-1/2″	29-1/2″	29-1/2″	29-1/2″	29-1/2″	34-1/2″
WIDTH (INCLUDES PUMP)	25-1/4″	29-1/4″	33-1/4″	36-1/4″	36-1/4″	39-1/4″	42-1/4″	45-1/4″	54-1/4″	62-1/4″
DEPTH	21-1/2″	21-1/2″	21-1/2″	21-1/2″	21-1/2″	21-1/2″	21-1/2″	21-1/2″	22″	22″
SERVICE CLEARANCES										
FRONT	24″	24″	24″	24″	24″	24″	24″	24″	24″	24″
BACK	6″	6″	6″	6″	6″	6″	6″	6″	6″	6″
RIGHT SIDE	6″	6″	6″	6″	6″	6″	6″	6″	6″	6″
LEFT SIDE (PIPING)	24″	24″	24″	24″	24″	24″	24″	24″	24″	24″
TOP	14″	14″	14″	29″	29″	29″	29″	29″	29″	29″
VENTING										
SIZE	5″	6″	7″	7″	7″	8″	8″	9	10″	10″
VENT CATEGORY	I	I	I	I	I	I	I	I	I	I
VENT MATERIAL	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT	B-VENT
MAXIMUM DRAFT	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.	-0.05″ w.c.
MINIMUM DRAFT	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.	-0.02″ w.c.

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CWA-PS-03 (Replaces CWA-PS-02 4/07)

11/07-Printed in U.S.A.